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148478

From: Yu, Misook
Sent: Tuesday, March 22, 2005 11:07 AM
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Subject: 09/830,338

Pls do interference search of SEQ ID NO:1.

Examiner Misook Yu, Ph.D.
571-272-0839 (Phone)
Art Unit 1642
REM-3A18 (Room)
REM-3C18 (Mail Box)

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Searcher: _____
Searcher Phone: 2-_____
Date Searcher Picked up: _____
Date Completed: _____
Searcher Prep/Rev. Time: _____
Online Time: _____

Type of Search

NA#: _____ AA#: _____
Interference: _____ SPDI: _____
S/L: _____ Oligomer: _____
Encode/Transl: _____
Structure#: _____ Text: _____
Inventor: _____ Litigation: _____

Vendors and cost where applicable

STN: _____
DIALOG: _____
QUESTEL/ORBIT: _____
LEXIS/NEXIS: _____
SEQUENCE SYSTEM: _____
WWW/Internet: _____
Other(Specify): _____

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OM protein - protein search, using sw model

Run on: March 26, 2005, 09:08:03 ; Search time 27 Seconds
(without alignments)
3878.987 Million cell updates/sec

Title: US-09-830-338-1
Perfect score: 7308
Sequence: 1 MATQQKASDERISQFDHNL.....SKYLTIQKWLPSPFIQK 1403

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	7308	100.0	1403	4	US-09-705-872-1 Sequence 1, Appli
2	6691	91.6	1295	4	US-09-705-872-3 Sequence 3, Appli
3	6373.5	87.2	1232	3	US-08-836-134-2 Sequence 2, Appli
4	6373.5	87.2	1232	4	US-09-493-784-2 Sequence 2, Appli
5	5955	81.5	1151	3	US-08-836-134-23 Sequence 23, Appl
6	5955	81.5	1151	4	US-09-493-784-23 Sequence 23, Appl
7	462	6.3	618	2	US-08-511-485-8 Sequence 8, Appli
8	462	6.3	618	3	US-09-212-971-8 Sequence 8, Appli
9	462	6.3	618	3	US-08-800-929A-8 Sequence 8, Appli
10	462	6.3	618	3	US-08-569-749-2 Sequence 2, Appli
11	462	6.3	618	3	US-09-617-053A-8 Sequence 8, Appli
12	462	6.3	618	3	US-09-069-023-29 Sequence 29, Appl
13	462	6.3	618	4	US-09-201-936-8 Sequence 8, Appli
14	462	6.3	618	4	US-09-011-356-8 Sequence 8, Appli
15	462	6.3	618	4	US-09-672-717-223 Sequence 223, App
16	462	6.3	618	4	US-09-201-932-8 Sequence 8, Appli
17	462	6.3	618	4	US-09-689-366-2 Sequence 2, Appli
18	462	6.3	618	5	PCT-US96-12860-2 Sequence 14, Appl
19	457.5	6.3	612	3	US-09-212-971-14 Sequence 14, Appl
20	457.5	6.3	612	3	US-08-800-929A-14 Sequence 14, Appl
21	457.5	6.3	612	3	US-08-569-749-14 Sequence 14, Appl
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26	441.5	6.0	591	4	US-09-011-356-42 Sequence 42, Appl
27	441.5	6.0	591	4	US-09-672-717-229 Sequence 229, App

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30	440	6.0	600	3	US-08-800-929A-12	Sequence 12, Appl
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36	437.5	6.0	496	4	US-09-201-936-10	Sequence 10, Appl
37	437.5	6.0	496	4	US-09-011-356-10	Sequence 10, Appl
38	437.5	6.0	496	4	US-09-672-717-225	Sequence 225, App
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40	436.5	6.0	604	3	US-08-569-749-4	Sequence 4, Appli
41	436.5	6.0	604	4	US-09-949-016-6031	Sequence 6031, Ap
42	436.5	6.0	604	4	US-09-689-366-4	Sequence 4, Appli
43	436.5	6.0	604	5	PCT-US96-12860-4	Sequence 4, Appli
44	436.5	6.0	613	4	US-09-949-016-10878	Sequence 10878, A
45	435	6.0	1140	4	US-09-579-692B-8	Sequence 8, Appli

ALIGNMENTS

RESULT 1
US-09-705-872-1
; Sequence 1, Application US/09705872
; Patent No. 6617429
; GENERAL INFORMATION:
; APPLICANT: Joh-E IKEDA
; APPLICANT: Kenji YAMAMOTO
; TITLE OF INVENTION: APOPTOSIS INHIBITORY PROTEIN, GENE ENCODING THE PROTEIN
; TITLE OF INVENTION: AND CDNA THEREOF
; FILE REFERENCE: 2000-1110/LC/00653
; CURRENT APPLICATION NUMBER: US/09/705,872
; CURRENT FILING DATE: 2000-11-06
; PRIOR APPLICATION NUMBER: 09/239,797
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 1403
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-705-872-1

Query Match	100.0%;	Score 7308;	DB 4;	Length 1403;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 1403;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	1	MATQQKASDERISQFDHNLPELSALLGLDAVQLAKELEEEQKERAKMQKGYNSQWRSE	60	
DB	1	MATQQKASDERISQFDHNLPELSALLGLDAVQLAKELEEEQKERAKMQKGYNSQWRSE	60	
QY	61	AKRLKTFVTYEPYSSWIPQEMAAAGFYFTGVKSGIQCFCCSLILFGAGLTRLPIEDHKRF	120	
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QY	121	HPDCGFLNKKDVGNIAKYDIRVKNLKSRLRGGMRYQEEEARLASFRNWPFFYVQGISPCV	180	
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DB	181	LSEAGFVFTGKQDVTQCFSCGGCLGNWEEGDDPWKEHAKWFPKCFEFLRSKSSSEETQYI	240	
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DB	241	QSYKGFVDITGEHFVNSWQRELPMASAYCNDSDIFAYEELRLDSFKDWPRESAVGVAALA	300	
QY	301	KAGLFYTGKIDIVQCFSCGGCLEKQWEGDDPLDHTCRFCPPNCPFLQNMKSSAEVTPDLQS	360	
DB	301	KAGLFYTGKIDIVQCFSCGGCLEKQWEGDDPLDHTCRFCPPNCPFLQNMKSSAEVTPDLQS	360	

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QY 421 LLDISSDLATDHLGCDLSIASKHISKPVQEPVLPEVFGNLSVMCVEGEAGSGKTVLL 480
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QY 481 KKIAFLWASGCCPLLNRFLVLYLSSTRPDEGLASIIDQLLEKSGSVTEMCMRNIIQ 540
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QY 541 QLNQVLFLLDDYKEICSIPOVIGKLIQKNHLSRTCLLIAVRTNRARDIRRYLETILEIK 600
Db |||||
QY 601 APPFYNTVCILRLKLFSHNMTRLRKFMVYFGKNQSLQKIQTPLFVAACIAHWFOYPPDPS 660
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Db |||||
QY 661 FDDVAVFKSYMERSLRNKATAEILKATVSSCGELALKGFFSCCFEFDNDLAEAGVDED 720
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QY 781 PMMTVSAYNNFLNYVSSLPSTKAGPKIVSHLLHLVDNKESLENISENDDYLKHQPEISLQ 840
Db |||||
QY 841 MQLLRGLWQICPOAYFSMVSEHLLVLALKTAYQSNNTVAACSPFVLQFLOGRRTLIGALNL 900
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QY 901 QYFFDHPESLSLLRSIHPPIRGNKTSPPRAHFSVLETCFDKQSVPTIDQDYASAFEPMNEW 960
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QY 961 ERNLAEKEDNVKSYMDMQRRASPDLSGTGYWKLSPKQYKIPCLEVDVNDIDVVGQDMLEIL 1020
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Db |||||
QY 1381 HPQSKYLTILQKWILPFPSPIIQK 1403
Db |||||

RESULT 2
US-09-705-872-3
; Sequence 3, Application US/09705872
; Patent No. 6617429
; GENERAL INFORMATION:
; APPLICANT: Joh-E IKEDA
; APPLICANT: Kenji YAMAMOTO
; TITLE OF INVENTION: APOPTOSIS INHIBITORY PROTEIN, GENE ENCODING THE PROTEIN
; TITLE OF INVENTION: AND CDNA THEREOF
; FILE REFERENCE: 2000-1110/LC/00653
; CURRENT APPLICATION NUMBER: US/09/705,872
; CURRENT FILING DATE: 2000-11-06
; PRIOR APPLICATION NUMBER: 09/239,797
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
; LENGTH: 1295
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-705-872-3

Query Match 91.6%; Score 6691; DB 4; Length 1295;
Best Local Similarity 99.8%; Pred. No. 0;
Matches 1282; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

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Db |||||
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Db |||||

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1141 EYDPSKL-----VA 1149
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Db |||||
1150 SLPNFISLKILNLEGGQFPDEETSEKFAYILGSLNLEELILPTGDIYRVAKLIIOQCQ 1209
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1210 QLHCLRVLSFFKTLNDDSVVEI 1231

RESULT 4

US-09-493-784-2
; Sequence 2, Application US/09493784
; Patent No. 6429011
; GENERAL INFORMATION:
; APPLICANT: Mackenzie, Alex E.
; APPLICANT: Korneluk, Robert G.
; APPLICANT: Mahadevan, Mani S.
; APPLICANT: McLean, Michael
; APPLICANT: Roy, Natalie
; APPLICANT: Ikeda, Joh-e
; TITLE OF INVENTION: Neuronal Apoptosis Inhibitor Protein, Gene Sequence and
; Patent No. 6429011
; TITLE OF INVENTION: Mutations Causative of Spinal Muscular Atrophy
; FILE REFERENCE: 3477-112, 033477/139914
; CURRENT APPLICATION NUMBER: US/09/493,784
; CURRENT FILING DATE: 2000-01-28
; PRIOR APPLICATION NUMBER: 08/836,134
; PRIOR FILING DATE: 1997-06-20
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 1232
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-493-784-2

Query Match 87.2%; Score 6373.5; DB 4; Length 1232;
Best Local Similarity 95.9%; Pred. No. 0;
Matches 1229; Conservative 1; Mismatches 1; Indels 51; Gaps 1;
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1 MATQOKASDERISQFDHNLPELSALIGLDAVLAKELKEEERAKQKGYNSQWRSE 60
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121 HPDCGFLNKDVGNIAKYDIRVKNLKSRLGGKMRVQEEEARLASFRNWPFFYVQGISPCV 180
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181 LSEAGFVFTGKQDVTQCFSCGGCLGNWEEGDDPWKEHAKWFPKCEFLRSKSSSEITQYI 240
QY 241 QSYKGFVDITGEHFVNSWVQRELPMASAYCNDISIFAYEELRLDSFKDWPRESAVGVAALA 300
Db |||||
241 QSYKGFVDITGEHFVNSWVQRELPMASAYCNDISIFAYEELRLDSFKDWPRESAVGVAALA 300
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301 KAGLFYTGIDIVQCFSCGGCLEKWQEGDDPLDDHTRCFPCNCPFLQNMKSSAEVTPDIQS 360
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541 QLKNOVLFLDDYKEICSIPOVIGKLIQKNHLSRTCLLIAVTRNRARDIRRYLETILEIQ 600
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601 APPFYNTVCILRKLFSHNMTRLRKFMVYFGKNQSLQIKQKTPLFVAACIAHWFQYFPDPS 660
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QY 721 EDLTMCLMSKFTAQRLRPFYRFLSPAFOEFLAGMRLIELLSDRQEHQDLGLYHLKQINS 780
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721 EDLTMCLMSKFTAQRLRPFYRFLSPAFOEFLAGMRLIELLSDRQEHQDLGLYHLKQINS 780
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Db |||||
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901 QYFFDHPESLSLLRSIHFPGRNKTSPRAHFSVLETCFDSQOVPTIDQDVASAFEPMNEW 960
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961 ERNLAEKEDNVKSYMDMQRASPDLSLSTGYWKLSPKQYKIPCLFVDVNDIDVVGQDMLEIL 1020
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1021 MTVFSASQRIEHLNHSRGFTIESIRPALELSKASVTKCSISKLELSAAEQELLLTLPSLE 1080
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1081 SLEVSQTIQSQDQIFPNLDKFLCKELSVLDLEGNINVSFVPIPEEPNFHMEKLLIQISA 1140
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1210 QLHCLRVLSFFKTLNDDSVVEI 1231

RESULT 5

US-08-836-134-23
; Sequence 23, Application US/08836134A
; Patent No. 6020127
; GENERAL INFORMATION:
; APPLICANT: Mackenzie, Alex E.
; APPLICANT: Korneluk, Robert G.
; APPLICANT: Mahadevan, Mani S.
; APPLICANT: McLean, Michael
; APPLICANT: Roy, Natalie
; APPLICANT: Ikeda, Joh-e
; TITLE OF INVENTION: Neuronal Apoptosis Inhibitor Protein, Gene Sequence and


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; Patent No. 6020127
; TITLE OF INVENTION: Mutations Causative of Spinal Muscular Atrophy
; FILE REFERENCE: 3477-112, 033477/139914
; CURRENT APPLICATION NUMBER: US/08/836,134A
; CURRENT FILING DATE: 1997-06-20
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 23
; LENGTH: 1151
; TYPE: PRT
; ORGANISM: Homo sapiens
US-08-836-134-23

Query Match      81.5%; Score 5955; DB 3; Length 1151;
Best Local Similarity 99.8%; Pred. No. 0;
Matches 1139; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 MATQOKASDERISQFDHNLPELSALLGLDAVQLAKELEEEQKERAKMQKGYNSQMRSE 60
Db 10 MATQOKASDERISQFDHNLPELSALLGLDAVQLAKELEEEQKERAKMQKGYNSQMRSE 69

QY 61 AKRLKTFVTYEPYSSWIPQEMAAAGFYFTGVKSGIQCFCCSLILFGAGLRLPIEDHKRF 120
Db 70 AKRLKTFVTYEPYSSWIPQEMAAAGFYFTGVKSGIQCFCCSLILFGAGLRLPIEDHKRF 129

QY 121 HPDCGFLLNKDVGNIAKYDIRVKNLKSRLRGKMKRYQEEEARLASFRNWPFFYVQGISPCV 180
Db 130 HPDCGFLLNKDVGNIAKYDIRVKNLKSRLRGKMKRYQEEEARLASFRNWPFFYVQGISPCV 189

QY 181 LSEAGFVFTGKQDVTQCFSCGCGLEKWEEDDPPWKEHAKWFPKCEFLRSKKSSEITQYI 240
Db 190 LSEAGFVFTGKQDVTQCFSCGCGLEKWEEDDPPWKEHAKWFPKCEFLRSKKSSEITQYI 249

QY 241 QSYKGFVDITGEHFVNSWVQRELPMASAYCNDISIPAYBELRLDSFKDWPRESAVGVAALA 300
Db 250 QSYKGFVDITGEHFVNSWVQRELPMASAYCNDISIPAYBELRLDSFKDWPRESAVGVAALA 309

QY 301 KAGLFYTGKIDIVQCFSCGCGLEKWEEDDPLDHTRCFPNCPFLQNMKSSAEVTPDLQS 360
Db 310 KAGLFYTGKIDIVQCFSCGCGLEKWEEDDPLDHTRCFPNCPFLQNMKSSAEVTPDLQS 369

QY 361 RGEICELLETTSNLEDSIAVGPIVPEMAQGEAQWFOEAKNLNEQLRAAYTSASFRHMS 420
Db 370 RGEICELLETTSNLEDSIAVGPIVPEMAQGEAQWFOEAKNLNEQLRAAYTSASFRHMS 429

QY 421 LLDISSDLATDHLGCDLSIASKHISKVQEPVLPEVFGNLSVMCVEGEAGSGKTVLL 480
Db 430 LLDISSDLATDHLGCDLSIASKHISKVQEPVLPEVFGNLSVMCVEGEAGSGKTVLL 489

QY 481 KKIAPFLWASGCCPLNRRFQVFLVLSLSTRPDEGLASIIQDQLLEKSGSVTEMCMRNIIQ 540
Db 490 KKIAPFLWASGCCPLNRRFQVFLVLSLSTRPDEGLASIIQDQLLEKSGSVTEMCMRNIIQ 549

QY 541 QLKNOVLFLDDYKEICSIPOVIGKLIQKNHLSRTCLLIQVAVTRNRARDIRRYLETILEIK 600
Db 550 QLKNOVLFLDDYKEICSIPOVIGKLIQKNHLSRTCLLIQVAVTRNRARDIRRYLETILEIQ 609

QY 601 AFPPYNTVCILRLKLFSHNMTLRKFMVYFGKNQSLQIKTPTPLVAAICAHWFQYPPDPS 660
Db 610 AFPPYNTVCILRLKLFSHNMTLRKFMVYFGKNQSLQIKTPTPLVAAICAHWFQYPPDPS 669

QY 661 FDDVAVFKSYMERSLRNKATAEILKATVSSCCGELALKGFFSCCFEFDNDLAEAGVDED 720
Db 670 FDDVAVFKSYMERSLRNKATAEILKATVSSCCGELALKGFFSCCFEFDNDLAEAGVDED 729

QY 721 EDLTMCMLMSKFTAQRLRPFFYRFLSPAFQEFAGMRLIELLDSRQEHQDLGLYHLKQINS 780
Db 730 EDLTMCMLMSKFTAQRLRPFFYRFLSPAFQEFAGMRLIELLDSRQEHQDLGLYHLKQINS 789

QY 781 PMMTVSAYNNFLNVSSLPSTKAGPKIVSHLLHLVDNKSLENISENDDYLKHQPEISLQ 840
Db 790 PMMTVSAYNNFLNVSSLPSTKAGPKIVSHLLHLVDNKSLENISENDDYLKHQPEISLQ 849
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QY 841 MQLLRGLWQICPOAYFSMVSEHLLVLALKTAQSNNTVAACSPFVLQFLOGRTLTLGAINL 900
Db 850 MQLLRGLWQICPOAYFSMVSEHLLVLALKTAQSNNTVAACSPFVLQFLOGRTLTLGAINL 909

QY 901 QYFFDHPESLSLLRSIHFPPIRGNKTSIPRAHFSVLETCFDKSKQVPTIDODYASAFEPMNEW 960
Db 910 QYFFDHPESLSLLRSIHFPPIRGNKTSIPRAHFSVLETCFDKSKQVPTIDODYASAFEPMNEW 969

QY 961 ERNLAEKEDNVKSYMDMORRASPDLSLTGYWKLSPKQYKIPCLEVDVNDIDVVGQDMLIL 1020
Db 970 ERNLAEKEDNVKSYMDMORRASPDLSLTGYWKLSPKQYKIPCLEVDVNDIDVVGQDMLIL 1029

QY 1021 MTVFSASQRIELHNLHNSRGFIESIRPALELSKASVTCKSISKLELSAAEQELLTLPSLE 1080
Db 1030 MTVFSASQRIELHNLHNSRGFIESIRPALELSKASVTCKSISKLELSAAEQELLTLPSLE 1089

QY 1081 SLEVSGTIQSQDQIFPNLDKFLCLKELSVLDLEGNINVFSPVPEFPNFHMEKLLIQISA 1140
Db 1090 SLEVSGTIQSQDQIFPNLDKFLCLKELSVLDLEGNINVFSPVPEFPNFHMEKLLIQISA 1149

QY 1141 E 1141
Db 1150 E 1150

RESULT 6
US-09-493-784-23
; Sequence 23, Application US/09493784
; Patent No. 6429011
; GENERAL INFORMATION:
; APPLICANT: Mackenzie, Alex E.
; APPLICANT: Korneluk, Robert G.
; APPLICANT: Mahadevan, Mani S.
; APPLICANT: McLean, Michael
; APPLICANT: Roy, Natalie
; APPLICANT: Ikeda, Joh-e
; TITLE OF INVENTION: Neuronal Apoptosis Inhibitor Protein, Gene Sequence and
; Patent No. 6429011
; TITLE OF INVENTION: Mutations Causative of Spinal Muscular Atrophy
; FILE REFERENCE: 3477-112, 033477/139914
; CURRENT APPLICATION NUMBER: US/09/493,784
; CURRENT FILING DATE: 2000-01-28
; PRIOR APPLICATION NUMBER: 08/836,134
; PRIOR FILING DATE: 1997-06-20
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 23
; LENGTH: 1151
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-493-784-23

Query Match      81.5%; Score 5955; DB 4; Length 1151;
Best Local Similarity 99.8%; Pred. No. 0;
Matches 1139; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 MATQOKASDERISQFDHNLPELSALLGLDAVQLAKELEEEQKERAKMQKGYNSQMRSE 60
Db 10 MATQOKASDERISQFDHNLPELSALLGLDAVQLAKELEEEQKERAKMQKGYNSQMRSE 69

QY 61 AKRLKTFVTYEPYSSWIPQEMAAAGFYFTGVKSGIQCFCCSLILFGAGLRLPIEDHKRF 120
Db 70 AKRLKTFVTYEPYSSWIPQEMAAAGFYFTGVKSGIQCFCCSLILFGAGLRLPIEDHKRF 129

QY 121 HPDCGFLLNKDVGNIAKYDIRVKNLKSRLRGKMKRYQEEEARLASFRNWPFFYVQGISPCV 180
Db 130 HPDCGFLLNKDVGNIAKYDIRVKNLKSRLRGKMKRYQEEEARLASFRNWPFFYVQGISPCV 189

QY 181 LSEAGFVFTGKQDVTQCFSCGCGLEKWEEDDPPWKEHAKWFPKCEFLRSKKSSEITQYI 240
Db 190 LSEAGFVFTGKQDVTQCFSCGCGLEKWEEDDPPWKEHAKWFPKCEFLRSKKSSEITQYI 249

QY 241 QSYKGFVDITGEHFVNSWVQRELPMASAYCNDISIPAYBELRLDSFKDWPRESAVGVAALA 300
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Db 463 KNRMALFQQLTCVLPILDNLLKANVINKQEHDIKQKTOIPLQARELIDTIWVGNAAN 522
QY 491 ----CCPLLNRFQVLYSLSTR-----PDEGLASIIDQLLEK--EGSVTEMCMRNII 539
Db 523 IFKNC---LKEIDSTLYKNLFVDKNMKYIPTEDVSGLSLEEQLRRLEERTCKVCMDKEV 579
QY 540 QQLKNQVFLFLDDYKEICSIPOVIGKLIQKNHLSRTCLLIAVRT 583
Db 580 ----SVVFIPCGHLVVC---QECAPSLRKPCICRGIIKGTVRT 615

RESULT 8
US-09-212-971-8
; Sequence 8, Application US/09212971B
; Patent No. 6107041
; GENERAL INFORMATION:
; APPLICANT: Korneluk, Robert G
; APPLICANT: Mackenzie, Alexander E
; APPLICANT: Liston, Peter
; APPLICANT: Baird, Stephen
; APPLICANT: Tsang, Benjamin K
; APPLICANT: Pratt, Christine
; TITLE OF INVENTION: DETECTION AND MODULATION OF IAPS AND
; TITLE OF INVENTION: NAIP FOR THE DIAGNOSIS AND TREATMENT OF PROLIFERATIVE
; TITLE OF INVENTION: DISEASE
; FILE REFERENCE: 07891/009002
; CURRENT APPLICATION NUMBER: US/09/212,971B
; CURRENT FILING DATE: 1998-12-16
; EARLIER APPLICATION NUMBER: 60/017,354
; EARLIER FILING DATE: 1996-04-26
; EARLIER APPLICATION NUMBER: 60/030,590
; EARLIER FILING DATE: 1996-11-14
; EARLIER APPLICATION NUMBER: 08/800,929
; EARLIER FILING DATE: 1997-02-13
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 618
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-212-971-8

Query Match 6.3%; Score 462; DB 3; Length 618;
Best Local Similarity 24.7%; Pred. No. 5.9e-33;
Matches 159; Conservative 93; Mismatches 238; Indels 154; Gaps 24;

QY 38 LEEEEQKERAKMQGYNQMRSEAKRLKTFVTEPYSSWIP---QEMAAAGFYFTGVKSG 94
Db 28 LSDWTNSNKQKMKYDFSC-----LYRMSTYSTFPAGVPVSRSLARAGFYTGVDNK 80
QY 95 IQCFCCSLILFGAGLRLPIEDHKRFHPDCGF-----LLNKOVGNIAKYDIRVKN----- 144
Db 81 VKFCFCCGLMLDNWKLGDSPIQKHQLYPSCSFQNLVVSASLGSSTSKNTSPMRNSFAHLS 140
QY 145 -----LKSRL-----RGKMYR--QEEEARLASFRNWPFFYVQG 175
Db 141 PTLHSSLSFGSYSSLPNPLNSRAVEDISSRTPNPSYAMSTEARFLTYHWP--LTF 198
QY 176 ISPCVLSEAGFVFTGQDVTQCFSCGGLGNWBGDDPWKEHAKWFPKCFELRSKSSSE 235
Db 199 LSPSELARAGFYIYIGPDRVACFACGGKLSNWEPKDDAMSEHRRHFPNCPFL--ENSLE 255
QY 236 ITQYIQSYKGFVDITGEHFVNSWVQRELPMASAYCNDSIFAYEELRLDSFKDWPRESAVG 295
Db 256 TLRFSIS-----NLSMQT-----HAARMRTFTMYWSPVPVQ 286
QY 296 VAALAKAGLFYTGKIDIVQCFSCGGLKQWEGDDPLDHTRCFPCNCPFLQNMKSSAEVT 355
Db 287 PEQLASAGFYVYVGRNDDVKFCGCDGLRCWESGDDPWVEHAKWFPCEFLIRMKQG-EFV 345
QY 356 PDLQSR-GELCELLETTSSENLDSIAGPIVPEMAQQAQWFOEAKNLNQLRAAYTSA 414
Db 346 DEIQGRYPHILLEQLLSTSDTTGEEN--ADPPIIHFGPGESS-SEDVMMNTPVVKSALAM 402

QY 415 SF-----RHMSLLDISDL-----ATDHLGCDLSIAS 442
Db 403 GFNRDLVKQTVLSKILTTGENYKTVNDIVSALLNAEDEKREKEKQAEEMASDDLSLIR 462
QY 443 KHISKVPQEPVLVPEVGNL---NSVMCEGEAGSGKTVL-----LKKIAFLWASG----- 490
Db 463 KNRMALFQQLTCVLPILDNLLKANVINKQEHDIKQKTOIPLQARELIDTIWVGNAAN 522
QY 491 ----CCPLLNRFQVLYSLSTR-----PDEGLASIIDQLLEK--EGSVTEMCMRNII 539
Db 523 IFKNC---LKEIDSTLYKNLFVDKNMKYIPTEDVSGLSLEEQLRRLEERTCKVCMDKEV 579
QY 540 QQLKNQVFLFLDDYKEICSIPOVIGKLIQKNHLSRTCLLIAVRT 583
Db 580 ----SVVFIPCGHLVVC---QECAPSLRKPCICRGIIKGTVRT 615

RESULT 9
US-08-800-929A-8
; Sequence 8, Application US/08800929A
; Patent No. 6133437
; GENERAL INFORMATION:
; APPLICANT: Korneluk, Robert G
; APPLICANT: Mackenzie, Alexander E
; APPLICANT: Liston, Peter
; APPLICANT: Baird, Stephen
; APPLICANT: Tsang, Benjamin K
; APPLICANT: Pratt, Christine
; TITLE OF INVENTION: DETECTION AND MODULATION OF
; TITLE OF INVENTION: IAPS AND NAIP FOR THE DIAGNOSIS AND TREATMENT OF PROLIFERATIVE
; TITLE OF INVENTION: DISEASE
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Clark & Elbing LLP
; STREET: 176 Federal Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02110
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/800,929A
; FILING DATE: 13-FEB-1997
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/030,590
; FILING DATE: 14-NOV-1996
; APPLICATION NUMBER: 60/017,354
; FILING DATE: 26-APR-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Bieker-Brady, Kristina
; REGISTRATION NUMBER:
; REFERENCE/DOCKET NUMBER: 07891/009001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-428-0200
; TELEFAX: 617-428-7045
; TELEX:
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 618 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-800-929A-8

Query Match 6.3%; Score 462; DB 3; Length 618;
Best Local Similarity 24.7%; Pred. No. 5.9e-33;

Matches	159;	Conservative	93;	Mismatches	238;	Indels	154;	Gaps	24
Qy	38	LEEEQKERAQKQKGYNSQMRSEAKRLKTFVYIEPYSSWIP----	QEMAAAGYFTGVKSG	94					
Db	28	LSDWNTSNKQKWKYDFSC-----LYRMTYSTFPAGVGPVSERSLARAGYTTGVNDK	80						
Qy	95	IQCFCCSLILFGAGLTRLPDIEDHKRFHPDCGF---LLNKDVGNIAKYDIRVKN-----	144						
Db	81	VKFCFCGLMLDNWKLGDSPIQKHQKQLYPSCFQNLVSLASLGSTSKNTSPMNSFAHLS	140						
Qy	145	-----LKSRLL-----RGKMR-----QEEEARLASFRNWPFFVQ	175						
Db	141	PTLEHSSLFSGSYSSLPNPLNSRAVEDISSRTNPYSYAMTEEARFLTYHWP--LTF	198						
Qy	176	ISPCVLSEAGFVFTGQDITVQCFSCGGCLGNWEEGDDPWKEHAKWFPKCEFLRSKKSSE	235						
Db	199	LSPSELARAGFYVIGPDRVACFACGGKLSNWEPKDDAMSEHRRHFPNCPL--ENSLE	255						
Qy	236	ITQYIQSYKGFVDITGEHFVNSVQRELPMASAYCNDSIFAYEELRLDSFKDWPRESAVG	295						
Db	256	TLRFSIS-----NLSMQT-----HAARMRTFMYPSSVPVQ	286						
Qy	296	VAALAKAGLFYTGIKDIVQCFSCGGCLEKWQEGDDPLDDHTRCFPNCPFLQNMKSSAEVT	355						
Db	287	PEQLASAGFYVYGRNDDVKFCGCDGGLRCWESGDDPWVEHAKWFPKCEFLRMKGQ-EFV	345						
Qy	356	PDLQSR-GELCELLETTSESNUEDSIAVGPIPEMAQGEAQWQEAQKNLNEQLRAAYTSA	414						
Db	346	DEIQGRYPHLLLEQLLSTSDTTGEEN--ADPPIIHFGPGESS-SEDAVMNTPVVKSAL	402						
Qy	415	SF-----RHMSLLDISDDL-----ATDHLGLGCDLSIAS	442						
Db	403	GFNRDLVKQTVLSKILTTGENTYKTVNDIVSALLNAEDEKREEKEKQAEEMASDDL	462						
Qy	443	KHISKVPQEPLVPEVFGNL---NSVMCVEGEAGSGKTVL---LKKIAFLWASG----	490						
Db	463	KRMALFQOLTCTVLPILDNLLKANVINKQEHDIKQKTQIPLQARELIDTIWVGNA	522						
Qy	491	----CCPLLNRFLVFLYLSLSTR-----PDEGLASIIDQLLEK--EGSVTEMC	539						
Db	523	IFKNC--LKEIDSTLYKNLFVDKRMKYIPTEDVSGLSLEEQLRLQERTCKVCMDKEV	579						
Qy	540	QQLKNQVFLLLDDYKEICSIPOVIGKLIQKNHLSRTCLLIAVRT	583						
Db	580	-----SVFIFPCGHLWVC--QECAPSLRKCPCIRGIINGKTVRT	615						

RESULT 10
US-08-569-749-2
; Sequence 2, Application US/08569749
; Patent No. 6187557
; GENERAL INFORMATION:
; APPLICANT: Rothe, Mike
; APPLICANT: Goeddel, David V
; TITLE OF INVENTION: INHIBITORS OF APOPTOSIS
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FLEHR, HOEBACH, TEST, ALBRITTON & HERBERT
; STREET: 4 Embarcadero Center, Suite 3400
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/569,749
; FILING DATE:
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:

```

; NAME: Brezner, David J.
; REGISTRATION NUMBER: 24,774
; REFERENCE/DOCKET NUMBER: A-62464/DJB
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415)781-1989
; TELEFAX: (415)398-3249
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 618 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
;
US-08-569-749-2

Query Match 6.3%; Score 462; DB 3; Length 618;
Best Local Similarity 26.0%; Pred. No. 5.9e-33;
Matches 155; Conservative 82; Mismatches 214; Indels 146; Gaps 22;

QY 38 LEEEEKERAKMQKGYNSQMRSEAKRLKTFVTYEPYSSWIP---QEMAAAGFYFTGVKSG 94
Db 28 LSDWTNSNQMKYDFSC-----LYRMSTYSTFPAGVPVVSERSLARAGFYFTGVNDK 80
QY 95 IQCFCCSLILFGAGLTRLPIDHKRHPDCGF---LLNKDVGNIAKYDIRVKN----- 144
Db 81 VKCFCCGLMLDNWKLGDSPIQKHQKQLYPCSFQIONLVASLGSTSKNTSPMNSFAHSL 140
QY 145 -----LKSRL-----RGGKMY--QEEEARLASFRNWPFFVQ 175
Db 141 PTLHSLFSGSYSSLPNLSRAVEDISSRTNPYSYAMSTEEARFLTYHWP--LTF 198
QY 176 ISPCVLSEAGFVFTGKQDTVQCFCGCGCLGNWEEGDDPWKEHAKWFPKCEFLRSKKSSE 235
Db 199 LSPSELARAGFYIIGPDRVACFACGGKLSNWEPKDDAMSEHRRHFPNCPFL--ENSL 255
QY 236 ITQYIQSYKGFVDITGEHFVNSWVQRELPMASAYCNDSIFAYEELRLDSFKDWPRESAVG 295
Db 256 TLRFSIS-----NLSMQT-----HAARMRTFMYPSSVPVQ 286
QY 296 VAALAKAGLFYTGIKDIVQCFSCGGCLEKWQEGDDPLDDHTRCFPNCPFLQNMKSSAEVT 355
Db 287 PEQLASAGFYVGRNDDVKCFCCDGLRCWESGDDPWVEHAKWFPCEFLRMKGQ-EFV 345
QY 356 PDLOS-R-GELCELLETTSESNILEDLSIAVGPIVPEMAQGEAQWFQEAKNLNEQLRAAYTSA 414
Db 346 DEIQGRYPHLLLEQLLSTSDITTEEN--ADPPIIHFGPGESS-SEDAVMVMTPVVKSAL 402
QY 415 SFRHMSLLDISDLATDHLGLGCDLSIAKSHISKPVQEP-LVLPVEVFGNLNSVMCVEGEAG 473
Db 403 GFNR-----DL-----VKQTQVSKILLTGENYKTVNDIVSALLNAE 438
QY 474 SGTVLLK-KIAFLWASGCCPLLNRFLQVLYLSLSSSTRPDEGLASII CDQLLEKGSVTE 532
Db 439 DEKREEEKEQAEMASDDLSLRKNRMALFQQLTCVLP-----ILDNLK----- 484
QY 533 MCMRNIIQLKXQVFLFLDDYKBCISIPQVIGKLIQKNHLSRCTLIIAVRTNRARDI 589
Db 485 ---ANVINKORHDI-----KOKTOIPIQLOARELID-----TILVKGNAAANI 523

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RESULT 11
US-09-617-053A-8
; Sequence 8, Application US/09617053A
; Patent No. 6300492
; GENERAL INFORMATION:
; APPLICANT: Korneluk, Robert G
; APPLICANT: Mackenzie, Alexander E
; APPLICANT: Liston, Peter
; APPLICANT: Baird, Stephen
; APPLICANT: Tsang, Benjamin K
; APPLICANT: Pratt, Christine
; TITLE OF INVENTION: DETECTION AND MONITORING OF
; TITLE OF INVENTION: NAIP FOR THE TREATMENT OF


```

; APPLICANT: Baird, Stephen
; APPLICANT: Holcik, Martin
; APPLICANT: Young, Sean
; TITLE OF INVENTION: Antisense IAP Nucleic Acids and Uses
; TITLE OF INVENTION: Thereof
; FILE REFERENCE: 07891/025001
; CURRENT APPLICATION NUMBER: US/09/672,717
; CURRENT FILING DATE: 2000-09-28
; NUMBER OF SEQ ID NOS: 231
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 223
; LENGTH: 618
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-672-717-223

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Query Match	6.3%;	Score 462;	DB 4;	Length 618;
Best Local Similarity	24.7%;	Pred. No. 5.9e-33;		
Matches 159;	Conservative 93;	Mismatches 238;	Indels 154;	Gaps 24;
Qy 38	LEEEQKERAKMQKGYNSQMRSEAKRLKTFVTYEPYSSWIP---	QEMAAAGFYFTGVKSG 94		
Db 28	LSDWTNSKQMKYDFSC-----LYRMSYSTFPAGVPVSERSLARAGFYITGVNDK 80			
Qy 95	IQCFCCSLIFGAGLTRLPIEDHKRFHPDCGF---LLNKDVGNIAKYDIRVKN----- 144			
Db 81	VKCFCCGLMDNWKLGDSPIQKHQKLYPSCSPIQNLVSASLGSTSKNTSPMRNSFAHSL 140			
Qy 145	-----LKSR-----RGKMY--QEEEARLASFRNWPFFYVQG 175			
Db 141	PTLEHSSLFGSYSSLPNPLNSRAVEDISSRTPNPYSYAMSTEEARFLTYHWP--LTF 198			
Qy 176	ISPCVLSEAGFVFTGKQDTVQCFSCGGCLGNWEEGDDPWKEHAKWPKCEFLRSKKSSEE 235			
Db 199	LSPSELARAGFYIIGPDRVACFACGGKLSNWEPKDDAMSEHRRHFPNCPFL--ENSLE 255			
Qy 236	ITQYIQSYKGFVDITGEHFVNSWVQRELPMASAYCNDSIFAYEELRLDSFKDWPRESAVG 295			
Db 256	TLRFSIS-----NLSMGT-----HAARMRTFYWPSSVPVQ 286			
Qy 296	VAAAKAGLFYTGIKDIVQCFSCGGCLEKWQEGDDPLDDHTRCFPPNCPFLQNMKSSAEVT 355			
Db 287	PEQLASAGFYVYGRNDDVKFCGCGGLRCWESGDDPWVEHAKWFPFRCFLIRMKGQ-EFV 345			
Qy 356	PDQSR-GEICELLETTSESNLSDSIAGVIPPEMAQGEAQWFOEAKNLNEQLRAAYTSA 414			
Db 346	DEIQGRYPHLLLEQLLSTSDTTGEEN--ADPILIHFGPGESS-SEDAVMNTPVVKSALEM 402			
Qy 415	SF-----RHMSLLDISDL-----ATDHLGCDLSIAS 442			
Db 403	GFNRLVKQTVLSKILTTGENYKTVNDIVSALLNAEDEKREKEKEKQAEEMASDDLSLIR 462			
Qy 443	KHISKVPQELVLPEVFGNL---NSVMCVEGEAGSGKTVL---LKKIAFLWASG----- 490			
Db 463	KNRMALFQOLTCVLPILDNLKANVINKQEHDIKQKQIPLQARELIDTIWVGNAAN 522			
Qy 491	----CCPLLNRFPQLVFLYSLSSTR-----PDEGLASIIICQLLEK--EGSVTEMCMRNII 539			
Db 523	IFKNC---LKEIDSTLYKNLFLVDKNMKYIPTEDVSGLSLEEQRLRRLQERTCKVCMDKEV 579			
Qy 540	QQLKNQVFLFLDDYKEICSTPQVIGKLIQKNHLSRTCLLIAVRT 583			
Db 580	-----SVVFIPCGHLVVC---QECAPSLRKCPCIRGIIKGTVRT 615			

Search completed: March 26, 2005, 09:13:40
Job time : 30 secs

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Db 61 AKRLKTFVTYEPYSSWIPQEMAAAGFYFTGVKSGIQCFCCSLILFGAGLTRLPDIEDHKRF 120
Qy 121 HPDCGFLNKKVGNIAKYDIRVKNLKSRLRGKVMRYOEERLASFRNWPFFYVQGISPCV 180
Db 121 HPDCGFLNKKVGNIAKYDIRVKNLKSRLRGKVMRYOEERLASFRNWPFFYVQGISPCV 180
Qy 181 LSEAGFVFTGKQDVTQCFSCGGCLGNWEEGDDPWKEHAKWFPKCEFLRSKSSSEITQYI 240
Db 181 LSEAGFVFTGKQDVTQCFSCGGCLGNWEEGDDPWKEHAKWFPKCEFLRSKSSSEITQYI 240
Qy 241 QSYKGFVDITGEHFVNSWQRELPMASAYCNDSPAYEELRLDSFKDWPRESAVGVAALA 300
Db 241 QSYKGFVDITGEHFVNSWQRELPMASAYCNDSPAYEELRLDSFKDWPRESAVGVAALA 300
Qy 301 KAGLFYTGKIDIVQCFSCGGCLEKQWEGDDPLDHTRCFPNCPFLQNMKSSAEVTPDLQS 360
Db 301 KAGLFYTGKIDIVQCFSCGGCLEKQWEGDDPLDHTRCFPNCPFLQNMKSSAEVTPDLQS 360
Qy 361 RGELCELLETTSESNELEDSIAVGPIVPMAQGEAQWFOEAKNLNEQLRAAYTSASFRHMS 420
Db 361 RGELCELLETTSESNELEDSIAVGPIVPMAQGEAQWFOEAKNLNEQLRAAYTSASFRHMS 420
Qy 421 LLDISSDLATDHLGCDLSIASKHISKPVQEPVLPEVFGNLSVMCEGEAGSCKTVLL 480
Db 421 LLDISSDLATDHLGCDLSIASKHISKPVQEPVLPEVFGNLSVMCEGEAGSCKTVLL 480
Qy 481 KKIAFLWASGCCPLNRFQVLFYLSSTRPDEGLASIIQDQLEKEGVSVMCMRNIIQ 540
Db 481 KKIAFLWASGCCPLNRFQVLFYLSSTRPDEGLASIIQDQLEKEGVSVMCMRNIIQ 540
Qy 541 QLKNOVLFLDDYKEICSIPOVIGKLIQKNHLSRTCLLIIVRTNRPARDIRRYLEILEIK 600
Db 541 QLKNOVLFLDDYKEICSIPOVIGKLIQKNHLSRTCLLIIVRTNRPARDIRRYLEILEIK 600
Qy 601 APFFYNTVCILRLKLFHSHNMTRLRKFMVYFGKNQSLQIKQKTPLFVAACIAHWFQYFPDPS 660
Db 601 APFFYNTVCILRLKLFHSHNMTRLRKFMVYFGKNQSLQIKQKTPLFVAACIAHWFQYFPDPS 660
Qy 661 FDDVAVPKSYMERLSLNKATAEILKATVSSCGELALKGFFSCCFEFDNDLLAEAGVDED 720
Db 661 FDDVAVPKSYMERLSLNKATAEILKATVSSCGELALKGFFSCCFEFDNDLLAEAGVDED 720
Qy 721 EDLTMCLMSKFTAQRLRPFFRFLSPAQEFPLAGMRLIELLSDRQEHQDLGLYHLKQINS 780
Db 721 EDLTMCLMSKFTAQRLRPFFRFLSPAQEFPLAGMRLIELLSDRQEHQDLGLYHLKQINS 780
Qy 781 PMMTVSAYNNFLNYVSSLPSTKAGPKIVSHLLHLVDNKESENISENDYLLKHQPEISLQ 840
Db 781 PMMTVSAYNNFLNYVSSLPSTKAGPKIVSHLLHLVDNKESENISENDYLLKHQPEISLQ 840
Qy 841 MQLRLGLWQICPOAYFSMVSEHLLVLALKTAYQSNVTAACSPFVLQFQGRRTLILGALNL 900
Db 841 MQLRLGLWQICPOAYFSMVSEHLLVLALKTAYQSNVTAACSPFVLQFQGRRTLILGALNL 900
Qy 901 QYFFDHPESLSLLRSIHPPIRGNKTSPPRAHFSVLETCFDKSOVPTIDQDYASAFEPMNEW 960
Db 901 QYFFDHPESLSLLRSIHPPIRGNKTSPPRAHFSVLETCFDKSOVPTIDQDYASAFEPMNEW 960
Qy 961 ERNLAEKEDNVKSYMVMQRRASPDLSYGYWKLSPKQYKIPCLEVDVNDIDVVGQDMLEIL 1020
Db 961 ERNLAEKEDNVKSYMVMQRRASPDLSYGYWKLSPKQYKIPCLEVDVNDIDVVGQDMLEIL 1020
Qy 1021 MTVFSASQRIELHNLHNSRGFIESIRPALELSKASVTKCSISKLELSAEQELLLTLPSLE 1080
Db 1021 MTVFSASQRIELHNLHNSRGFIESIRPALELSKASVTKCSISKLELSAEQELLLTLPSLE 1080
Qy 1081 SLEVSGETTQSDQIIFPNLDKFLCLKELSVLDLEGNINVSFVPIPEEFPNHHMEKLLIQISA 1140
Db 1081 SLEVSGETTQSDQIIFPNLDKFLCLKELSVLDLEGNINVSFVPIPEEFPNHHMEKLLIQISA 1140
Qy 1141 EYDPSKLVKLIQNSPNLHVFLKCNFFSDPGLMTMLVSKCKLTKIKFSDSFFQAVPFVA 1200

Db 1141 EYDPSKLVKLIQNSPNLHVFLKCNFFSDPGLMTMLVSKCKLTKIKFSDSFFQAVPFVA 1200
Qy 1201 SLPNFISLKILNLEGQQPDEETSEKPAYILGSLSNLEELILPTGDGIYRVAKLIIQQCQ 1260
Db 1201 SLPNFISLKILNLEGQQPDEETSEKPAYILGSLSNLEELILPTGDGIYRVAKLIIQQCQ 1260
Qy 1261 QHCLRLVLSFFKTLNDDSVVEIAKVAISGGFQKLENKLSINHKITEEGYRNFFQALDNM 1320
Db 1261 QHCLRLVLSFFKTLNDDSVVEIAKVAISGGFQKLENKLSINHKITEEGYRNFFQALDNM 1320
Qy 1321 PNLQELDISRHFTTECIKAQATTVKSLSQCVLRLPRLIRLNLMLSWLLDADDIALLNVMKER 1380
Db 1321 PNLQELDISRHFTTECIKAQATTVKSLSQCVLRLPRLIRLNLMLSWLLDADDIALLNVMKER 1380
Qy 1381 HPQSKYLTILOKWLFPSPFIQK 1403
Db 1381 HPQSKYLTILOKWLFPSPFIQK 1403
RESULT 2
US-08-913-322-24
; Sequence 24, Application US/08913322
; Publication No. US20020137028A1
; GENERAL INFORMATION:
; APPLICANT: Korneluk, Robert G.
; APPLICANT: MacKenzie, Alexander E.
; APPLICANT: Roy, Natalie
; APPLICANT: Robertson, George
; APPLICANT: Tamai, Katsu
; TITLE OF INVENTION: USER OF NEURONAL APOPTOSIS INHIBITOR
; TITLE OF INVENTION: (NAIP)
; FILE REFERENCE: 07891/013001
; CURRENT APPLICATION NUMBER: US/08/913,322
; CURRENT FILING DATE: 1997-09-12
; EARLIER APPLICATION NUMBER: PCT/IB97/00142
; EARLIER FILING DATE: 1997-01-17
; EARLIER APPLICATION NUMBER: GB 9601108.5
; EARLIER FILING DATE: 1996-01-19
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 24
; LENGTH: 1403
; TYPE: PRT
; ORGANISM: Homo sapiens
US-08-913-322-24
Query Match 100.0%; Score 7308; DB 8; Length 1403;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1403; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MATQOKASDERISQFDHNLPELSALLGLDAVLAKELKEEEQKERAKMQKGYNSQMRSE 60
Db 1 MATQOKASDERISQFDHNLPELSALLGLDAVLAKELKEEEQKERAKMQKGYNSQMRSE 60
Qy 61 AKRLKTFVTYEPYSSWIPQEMAAAGFYFTGVKSGIQCFCCSLILFGAGLTRLPDIEDHKRF 120
Db 61 AKRLKTFVTYEPYSSWIPQEMAAAGFYFTGVKSGIQCFCCSLILFGAGLTRLPDIEDHKRF 120
Qy 121 HPDCGFLNKKVGNIAKYDIRVKNLKSRLRGKVMRYOEERLASFRNWPFFYVQGISPCV 180
Db -121 HPDCGFLNKKVGNIAKYDIRVKNLKSRLRGKVMRYOEERLASFRNWPFFYVQGISPCV 180
Qy 181 LSEAGFVFTGKQDVTQCFSCGGCLGNWEEGDDPWKEHAKWFPKCEFLRSKSSSEITQYI 240
Db 181 LSEAGFVFTGKQDVTQCFSCGGCLGNWEEGDDPWKEHAKWFPKCEFLRSKSSSEITQYI 240
Qy 241 QSYKGFVDITGEHFVNSWQRELPMASAYCNDSPAYEELRLDSFKDWPRESAVGVAALA 300
Db 241 QSYKGFVDITGEHFVNSWQRELPMASAYCNDSPAYEELRLDSFKDWPRESAVGVAALA 300
Qy 301 KAGLFYTGKIDIVQCFSCGGCLEKQWEGDDPLDHTRCFPNCPFLQNMKSSAEVTPDLQS 360
Db 301 KAGLFYTGKIDIVQCFSCGGCLEKQWEGDDPLDHTRCFPNCPFLQNMKSSAEVTPDLQS 360

QY 361 RGELCELLETTSESNLEDSIAVGPVPEMAQGEAQWFOEAKNLNEQLRAAYTSASFRHMS 420
DB 361 RGELCELLETTSESNLEDSIAVGPVPEMAQGEAQWFOEAKNLNEQLRAAYTSASFRHMS 420
QY 421 LLDISSDLATDHLGCDLSIASKHISKPVQEPVLPEVFGNLSVMCVEGEAGSKTVLL 480
DB 421 LLDISSDLATDHLGCDLSIASKHISKPVQEPVLPEVFGNLSVMCVEGEAGSKTVLL 480
QY 481 KKIAFLWASGCCPLNRFQVLYLSSTRPDEGLASIIDQLLEKSGSVTEMCWRNIIQ 540
DB 481 KKIAFLWASGCCPLNRFQVLYLSSTRPDEGLASIIDQLLEKSGSVTEMCWRNIIQ 540
QY 541 QLNQVFLFLDDYKEICSIPOVIGKLIQKNHLSRTCLLIJAVRNRARDIRRYLETILEIK 600
DB 541 QLNQVFLFLDDYKEICSIPOVIGKLIQKNHLSRTCLLIJAVRNRARDIRRYLETILEIK 600
QY 601 APPFYNTVCILRLKLFSHNMTLRKFMVYFGKNQSLQIKQKTPLFVAAICAHWFOYFPDPS 660
DB 601 APPFYNTVCILRLKLFSHNMTLRKFMVYFGKNQSLQIKQKTPLFVAAICAHWFOYFPDPS 660
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DB 661 FDDVAVFKSYMERLSLRNKATAEILKATVSSCGELALKGFFSCCFEFDNDLAEAGVDED 720
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DB 721 EDLTWCLMSKFTAQRLRPFYRFLSPAQEFQWFOEAKNLNEQLRAAYTSASFRHMS 780
QY 781 PMMTVSAYNNFLNYVSSLPSTKAGPKIVSHLLHLDVNKESLENISENDDYKHOPEISLQ 840
DB 781 PMMTVSAYNNFLNYVSSLPSTKAGPKIVSHLLHLDVNKESLENISENDDYKHOPEISLQ 840
QY 841 MQLRLGLWQICPOQAFYFMSVSEHLLVLALKTAYQSNVAAACSPFVLQGLRTLTIGALNL 900
DB 841 MQLRLGLWQICPOQAFYFMSVSEHLLVLALKTAYQSNVAAACSPFVLQGLRTLTIGALNL 900
QY 901 QYFDPHPESLSLLRSIHFFPIRGNTKSPRAHFSVLETCFDKQSVPTIDQDYASAFEPMNEW 960
DB 901 QYFDPHPESLSLLRSIHFFPIRGNTKSPRAHFSVLETCFDKQSVPTIDQDYASAFEPMNEW 960
QY 961 ERNLAEKEDNVKSYMDQMRRASPDLSGTGWKLSPKQYKIPCELVNDVIDVVGQDMLEIL 1020
DB 961 ERNLAEKEDNVKSYMDQMRRASPDLSGTGWKLSPKQYKIPCELVNDVIDVVGQDMLEIL 1020
QY 1021 MTVFSASQRIELHNSRGFIESIRPALELSKASVTKCSISKLELSAAEQELLTLPSLE 1080
DB 1021 MTVFSASQRIELHNSRGFIESIRPALELSKASVTKCSISKLELSAAEQELLTLPSLE 1080
QY 1081 SLEVSGTIQSDQIIPPNDLKFLCLKELSDVLEGNINVSFVPIPEEPFNHMEKLLIIQISA 1140
DB 1081 SLEVSGTIQSDQIIPPNDLKFLCLKELSDVLEGNINVSFVPIPEEPFNHMEKLLIIQISA 1140
QY 1141 EYDPSKLVKLIQNSPNLHVFLKCNFFSDFGSLMTMLVSCCKLTKFSDSFFQAVPFVA 1200
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QY 1201 SLNPFISLKIINLEGOQFPDEETSEKPAYILGSLSNLEELILPTGDGIYRVAKLIIQCCQ 1260
DB 1201 SLNPFISLKIINLEGOQFPDEETSEKPAYILGSLSNLEELILPTGDGIYRVAKLIIQCCQ 1260
QY 1261 QLHCLRLVLSFFKTLNDDSVVEIAKVAISGGFQKLENKLSINHKITEEGYRNFFQALDNM 1320
DB 1261 QLHCLRLVLSFFKTLNDDSVVEIAKVAISGGFQKLENKLSINHKITEEGYRNFFQALDNM 1320
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DB 1321 PNLQELDISRHFTTECIKAQATTVKSLSQCVRRLPRLIRLNMLSWLLDADDIALLNVMKER 1380
QY 1381 HPQSKYLTILQKWILPFPSPIIQK 1403
DB 1381 HPQSKYLTILQKWILPFPSPIIQK 1403

RESULT 3
US-10-285-408-1
; Sequence 1, Application US/10285408
; Publication No. US20030108967A1
; GENERAL INFORMATION:
; APPLICANT: IKEDA, Johe
; APPLICANT: SAKAI, Harumi
; TITLE OF INVENTION: Monoclonal Antibodies Against Human Apoptosis Inhibitory Protein 1
; FILE OF INVENTION: and Method For Assaying the NAIP
; FILE REFERENCE: 2002-1440/WMC/00653
; CURRENT APPLICATION NUMBER: US/10/285,408
; CURRENT FILING DATE: 2002-11-01
; PRIOR APPLICATION NUMBER: 09/830,338
; PRIOR FILING DATE: 2001-04-26
; PRIOR APPLICATION NUMBER: PCT/JP99/05841
; PRIOR FILING DATE: 1999-10-22
; NUMBER OF SEQ ID NOS: 2
; SEQ ID NO 1
; LENGTH: 1403
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-285-408-1

Query Match 100.0%; Score 7308; DB 14; Length 1403;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1403; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MATQOKASDERISQFDHNLPLSALLGLDAVLAKELKEEEQERAKQKQYNSQMRSE 60
DB 1 MATQOKASDERISQFDHNLPLSALLGLDAVLAKELKEEEQERAKQKQYNSQMRSE 60
QY 61 AKRLKTFVTYEPYSSWIPQEMAAAGFYFTGVKSGIQCFCCSLILFGAGLTRLPIDHKRF 120
DB 61 AKRLKTFVTYEPYSSWIPQEMAAAGFYFTGVKSGIQCFCCSLILFGAGLTRLPIDHKRF 120
QY 121 HPDCGFLNLDVGNIAKYDIRVKNLKSRLRGKQRYQEEEARLASFRNWPFFYVQGISPCV 180
DB 121 HPDCGFLNLDVGNIAKYDIRVKNLKSRLRGKQRYQEEEARLASFRNWPFFYVQGISPCV 180
QY 181 LSEAGFVFTGKQDVTQCFSCGCLGNWEEGDDPWKEHAKWFPKCEFLRSKKSSEITQYI 240
DB 181 LSEAGFVFTGKQDVTQCFSCGCLGNWEEGDDPWKEHAKWFPKCEFLRSKKSSEITQYI 240
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QY 301 KAGLFYTGIDIVQCFSCGCLGNWEEGDDPLDDHTRCFPCNPFLQNMKSSAEVTPDLQS 360
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QY 361 RGELCELLETTSESNLEDSIAVGPVPEMAQGEAQWFOEAKNLNEQLRAAYTSASFRHMS 420
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DB 601 APPFYNTVCILRLKLFSHNMTLRKFMVYFGKNQSLQIKQKTPLFVAAICAHWFOYFPDPS 660
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Db 661 FDDVAVFKSYMERLSLRNKATAEILKATVSSCGELALKGFFSCCFNFDDDLAEAGVDED 720
QY 721 EDLTMCLMSKFTAQRILRPFFRFLSPAFQEFAGWRLIELLSDRQEHQDGLGLYHLKQINS 780
Db 721 EDLTMCLMSKFTAQRILRPFFRFLSPAFQEFAGWRLIELLSDRQEHQDGLGLYHLKQINS 780
QY 781 PMMTVSAYNNFLNVSSLPSTKAGPKIVSHLLHVDNKESLENISENDDYLKHQPEISLQ 840
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QY 841 MQLLRGLWQICPQAYFSVMVSEHLVLALKTAYQSNVVAACSPFVLQFQRTTLTGALNL 900
Db 841 MQLLRGLWQICPQAYFSVMVSEHLVLALKTAYQSNVVAACSPFVLQFQRTTLTGALNL 900
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Db 901 QYFFDHPESLSLLRSIHPIRGNTSPRAHFSVLETCFDKQSVPTIDQDYASAFEPMNEW 960
QY 961 ERNLAEKEDNVKSYNDMQRASPDLSLSTGYWKLSPKQYKIPCLEVDVNDIDVVGQDMLEIL 1020
Db 961 ERNLAEKEDNVKSYNDMQRASPDLSLSTGYWKLSPKQYKIPCLEVDVNDIDVVGQDMLEIL 1020
QY 1021 MTFVSASQRIELHNSRGFIESIRPALELSKASTKCSISKLELSAAEQELLLTLPSLE 1080
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QY 1081 SLEVSSTIQSQDQIFPNLDKFLCLKELSDVLEGNINVSFVPIPEEPNFMHMEKLLIQISA 1140
Db 1081 SLEVSSTIQSQDQIFPNLDKFLCLKELSDVLEGNINVSFVPIPEEPNFMHMEKLLIQISA 1140
QY 1141 EYDPSKLVKLIQNSPNLHVFLKCNFSDFGSLMTMLVSCCKLTKETKFSDFSFFQAVPFVA 1200
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QY 1201 SLPNFTSLKILNLEGQFPDEETSEKFAIYLGSLNLEELILPTGDIYRVAKLIIQQCQ 1260
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QY 1321 PNLQELDISRHFTCEKICAQATTVKSLSQCVRRLPRLRLNMLSWLLDADDIALINVMKER 1380
Db 1321 PNLQELDISRHFTCEKICAQATTVKSLSQCVRRLPRLRLNMLSWLLDADDIALINVMKER 1380
QY 1381 HPQSKYLTILQKWILPSPIIQK 1403
Db 1381 HPQSKYLTILQKWILPSPIIQK 1403

RESULT 4
US-09-841-739-9
; Sequence 9, Application US/09841739
; Patent No. US20020034784A1
; GENERAL INFORMATION:
; APPLICANT: Bertin, John
; TITLE OF INVENTION: NOVEL MOLECULES OF THE CARD-RELATED PROTEIN FAMILY AND USES THERE
; FILE REFERENCE: 07334-329001
; CURRENT APPLICATION NUMBER: US/09/841,739
; CURRENT FILING DATE: 2001-08-29
; PRIOR APPLICATION NUMBER: US 09/697,089
; PRIOR FILING DATE: 2000-10-26
; PRIOR APPLICATION NUMBER: US 60/161,822
; PRIOR FILING DATE: 1999-10-27
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 782
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-841-739-9

Query Match 54.3%; Score 3970.5; DB 9; Length 782;
Best Local Similarity 93.6%; Pred. No. 3.5e-308;
Matches 779; Conservative 1; Mismatches 1; Indels 51; Gaps 1;
QY 451 EPLVLPEVGNLNSVMCEGEAGSGKTLLKIAFLWASGCCPLLRNFQLVFVLSLSSTR 510
Db 1 EPLVLPEVGNLNSVMCEGEAGSGKTLLKIAFLWASGCCPLLRNFQLVFVLSLSSTR 60
QY 511 PDEGLASIIDQLLEKEGVTMCMRNIIQQLKNQVFLDDYKEICSIQVIGKLIQKN 570
Db 61 PDEGLASIIDQLLEKEGVTMCMRNIIQQLKNQVFLDDYKEICSIQVIGKLIQKN 120
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Db 121 HLSRTCLLIAVRTNRARDIRRYLEILEIQAFYNTVTCILRKLFSHNMTRLRKFMVYFG 180
QY 631 KNQSLQKIQTPLFVAACAHWFQYFPDFSDDDVAVFKSYMERLSLRNKATAEILKATVS 690
Db 181 KNQSLQKIQTPLFVAACAHWFQYFPDFSDDDVAVFKSYMERLSLRNKATAEILKATVS 240
QY 691 SCGELALKGFFSCCFEFNDDDLAEAGVDEDELTMCMSKFTAQRLRPFFRFLSPAFQEF 750
Db 241 SCGELALKGFFSCCFEFNDDDLAEAGVDEDELTMCMSKFTAQRLRPFFRFLSPAFQEF 300
QY 751 LAGMRLIELLSDRQEHQDGLGLYHLKQINS PMMTVSAYNNFLNVSSLPSTKAGPKIVSH 810
Db 301 LAGMRLIELLSDRQEHQDGLGLYHLKQINS PMMTVSAYNNFLNVSSLPSTKAGPKIVSH 360
QY 811 LLHLVDNKESLENISENDDYLKHQPEISLQWQLLRGLWQICPQAYFSVMVSEHLVLALKT 870
Db 361 LLHLVDNKESLENISENDDYLKHQPEISLQWQLLRGLWQICPQAYFSVMVSEHLVLALKT 420
QY 871 AYQSNVTAACSPFVLQFQRTTLTGALNLQYFFDHPESLSLLRSIHPIRGNTSPRAH 930
Db 421 AYQSNVTAACSPFVLQFQRTTLTGALNLQYFFDHPESLSLLRSIHPIRGNTSPRAH 480
QY 931 FSVLETCTDKSQVPTIDQDYASAFEPNMEWERNLAEKEDNVKSYNDMQRASPDLSLSTGYW 990
Db 481 FSVLETCTDKSQVPTIDQDYASAFEPNMEWERNLAEKEDNVKSYNDMQRASPDLSLSTGYW 540
QY 991 KLSPKQYKIPCLEVDVNDIDVVGQDMLEILMTVFSASQRIELHNSRGFIESIRPALEL 1050
Db 541 KLSPKQYKIPCLEVDVNDIDVVGQDMLEILMTVFSASQRIELHNSRGFIESIRPALEL 600
QY 1051 SKASVTKCSISKLELSAAEQELLLTLPSLESIEVSGTIQSQDQIFPNLDKFLCLKELSDV 1110
Db 601 SKASVTKCSISKLELSAAEQELLLTLPSLESIEVSGTIQSQDQIFPNLDKFLCLKELSDV 660
QY 1111 LEGNINVSFVPIPEEPNFMHMEKLLIQISA EYDPSKLVKLIQNSPNLHVFLKCNFFSDF 1170
Db 661 LEGNINVSFVPIPEEPNFMHMEKLLIQISA EYDPSKL----- 697
QY 1171 GSLMTMLVSCCKLTKETKFSDFSFFQAVPFVVASLPNFI SLKILNLEGQFPDEETSEKFAIY 1230
Db 698 -----VASLPNFI SLKILNLEGQFPDEETSEKFAIY 729
QY 1231 LGSLSNLEELILPTGDIYRVAKLIIQQCQQLHCLRVLSFFKTLNDDSVVEI 1282
Db 730 LGSLSNLEELILPTGDIYRVAKLIIQQCQQLHCLRVLSFFKTLNDDSVVEI 781

RESULT 5
US-10-449-315-9
; Sequence 9, Application US/10449315
; Publication No. US20030190679A1
; GENERAL INFORMATION:
; APPLICANT: Bertin, John
; TITLE OF INVENTION: NOVEL MOLECULES OF THE CARD-RELATED PROTEIN FAMILY AND USES THERE
; FILE REFERENCE: 07334-329001
; CURRENT APPLICATION NUMBER: US/10/449,315
; CURRENT FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: US /09/841,739

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; PRIOR FILING DATE: 2001-08-29
; PRIOR APPLICATION NUMBER: US 09/697,089
; PRIOR FILING DATE: 2000-10-26
; PRIOR APPLICATION NUMBER: US 60/161,822
; PRIOR FILING DATE: 1999-10-27
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 782
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-449-315-9

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Query Match	54.3%	Score 3970.5;	DB 14;	Length 782;
Best Local Similarity	93.6%	Pred. No. 3.5e-308;		
Matches 779;	Conservative 1;	Mismatches 1;	Indels 51;	Gaps 1;

Qy	451	EPLVLP	EVFGNLNSVM	CV	EGSAGSGKT	VLLK	KIAFLWASG	CCPLNRRFQ	LVFYLSLS	STR	510
Db	1	EPLVLP	EVFGNLNSVM	CV	EGSAGSGKT	VLLK	KIAFLWASG	CCPLNRRFQ	LVFYLSLS	STR	60
Qy	511	PDEGLAS	IICDQLLEK	EGSVTEM	CMRNII	IQOLKNQV	LFLDDYKE	ICSIPQVIG	KLIQKN		570
Db	61	PDEGLAS	IICDQLLEK	EGSVTEM	CMRNII	IQOLKNQV	LFLDDYKE	ICSIPQVIG	KLIQKN		120
Qy	571	HL	SRTCLLI	AVRTNR	ARRRYLE	TI	LEIKAPFPYNT	VCILRK	LFSHNMTR	LRFKFMVYFG	630
Db	121	HL	SRTCLLI	AVRTNR	ARRRYLE	TI	LEIQAFPFPYNT	VCILRK	LFSHNMTR	LRFKFMVYFG	180
Qy	631	KNQSLQ	KIQKTPLF	VAAICAH	WFQYP	FPDPSP	DDVAVFKSYMER	LSLRNKAT	AETAILKATVS		690
Db	181	KNQSLQ	KIQKTPLF	VAAICAH	WFQYP	FPDPSP	DDVAVFKSYMER	LSLRNKAT	AETAILKATVS		240
Qy	691	SCGELAL	KGFFSCCF	EFNDDDL	AEAGVDE	BDLTMCL	MSKFTAQRLR	PFYRFLSP	AFQEF		750
Db	241	SCGELAL	KGFFSCCF	EFNDDDL	AEAGVDE	BDLTMCL	MSKFTAQRLR	PFYRFLSP	AFQEF		300
Qy	751	L	AGMRLIEL	LLSDRQ	EHQDGL	LYHLKQ	INS	PMMTVSAY	NFLNYVSSL	PSTKAGPKIVSH	810
Db	301	L	AGMRLIEL	LLSDRQ	EHQDGL	LYHLKQ	INS	PMMTVSAY	NFLNYVSSL	PSTKAGPKIVSH	360
Qy	811	LLHLVDN	KESLENI	SENDDYL	KHOPEIS	LQWOLL	RGLWQIC	QAYF	SMVSHLLVLAKT		870
Db	361	LLHLVDN	KESLENI	SENDDYL	KHOPEIS	LQWOLL	RGLWQIC	QAYF	SMVSHLLVLAKT		420
Qy	871	AYQSN	TVAACSP	FVLQ	FGRTLT	LGALNL	QYFFDHP	ESLSLLRS	IHFPIRG	NKTS	930
Db	421	AYQSN	TVAACSP	FVLQ	FGRTLT	LGALNL	QYFFDHP	ESLSLLRS	IHFPIRG	NKTS	480
Qy	931	FSVLET	CFDKSQVPT	IDQYAS	A	FEP	MNEWERNLAEKED	NVKS	YMDMQR	RASPD	990
Db	481	FSVLET	CFDKSQVPT	IDQYAS	A	FEP	MNEWERNLAEKED	NVKS	YMDMQR	RASPD	540
Qy	991	KLSPK	QYKIP	CL	LEV	VNDID	VGQDMLEIL	MTVFS	SQRIEL	HLNHSRGFIESIR	1050
Db	541	KLSPK	QYKIP	CL	LEV	VNDID	VGQDMLEIL	MTVFS	SQRIEL	HLNHSRGFIESIR	600
Qy	1051	SKASV	T	KCSIK	LELSA	AEQELL	TLPLS	LESLEV	SGTIQSQDQIF	PNLDKFLCL	1110
Db	601	SKASV	T	KCSIK	LELSA	AEQELL	TLPLS	LESLEV	SGTIQSQDQIF	PNLDKFLCL	660
Qy	1111	LEGNIN	V	SVIPEE	FPNFH	MEKLLIQ	ISAEYDPSK	VKL	IQNSPN	LHVHFLKCNFF	1170
Db	661	LEGNIN	V	SVIPEE	FPNFH	MEKLLIQ	ISAEYDPSK	VKL	IQNSPN	LHVHFLKCNFF	697
Qy	1171	GSLMT	VL	VSCK	KLTEI	K	FS	DSFFQAVP	FVASL	PNFISL	1230
Db	698	-----	-----	-----	-----	-----	-----	-----	-----	-----	729
Qy	1231	LGSL	SN	LEE	L	PTGD	GI	VRVAKLII	IQCCQ	OLHCL	1282
Db	730	LGSL	SN	LEE	L	PTGD	GI	VRVAKLII	IQCCQ	OLHCL	781


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Db 541 SFDLNKQAITDLGTGFSSASSLQIKRCAGVAGSLSLVLSTCKNIYSLEVDASDLTVV 600
Qy 1013 GQDMLEIL--MTVFS-----ASQRIELHLNHS-----RGFIESRPALELSKASVTK----- 1057
Db 601 GEDHLTIVTNLTIVLSIHDLASQRLGGLTDSLGNLKGELIELIRDALELSEASAICLAEGL 660
Qy 1058 -----CSISKLELSAAEQELLTLPSLES-----LE-----VSGTIQSDQIIPNL 1098
Db 661 KNLKMKCLISLELSAAGEGLLIVKLSSEPCDLEIEIQLVSCCLVAGAVQILAQILHNL 720
Qy 1099 DK--FLCLKELSVDLGNINVSVIPPEFPNFHMEKLLIQISABYDPSKLVKLIQNSPN 1156
Db 721 VKLSILDLSVLDLGNIAVHSVIPDEFNVLEQLTALLQIGADV----- 767
Qy 1157 LHVFLKCNFFSDPGSLMTMLVSKCKLTEIKFSDSFFQAVPFVASLPNFISLKILNLEGG 1216
Db 768 -----GSLSSL-----VASLEEVISLVILGLEGG 791
Qy 1217 QPDEETSEKFAYI-LGSLSNLEELILPTGD-----GIYRVAKL----- 1254
Db 792 QLTDTETISILGAFIGLGLSNLEELILAGDVSDDGWLAFMGVFEVAKLLVPFDFSTKEF 851
Qy 1255 -----IIQQCOQLHCLRVLSFFKT-----LNDDSVVEIAKVAISGGFQ 1292
Db 852 LPDPALVQQLSQV--LSVLSFLQTARLVGWQLDDSDV-----VVITGAFK 894
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RESULT 9
US-10-029-386-33933
; Sequence 33933, Application US/10029386
; Publication No. US20030194704A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharon G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; TITLE OF INVENTION: EXPRESSION ANALYSIS TWO
; FILE REFERENCE: AEOMICA-X-2
; CURRENT APPLICATION NUMBER: US/10/029,386
; CURRENT FILING DATE: 2001-12-20
; NUMBER OF SEQ ID NOS: 34288
; SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 33933
; LENGTH: 203
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AC005031.1
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 1.6
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 0.95
; OTHER INFORMATION: SWISSPROT HIT: Q13075, EVALUATE 1.00e-112
US-10-029-386-33933

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Query Match 14.2%; Score 1037; DB 14; Length 203;  
Best Local Similarity 100.0%; Pred. No. 2.1e-74;  
Matches 203; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 389 MAQGEAQWFOBAKNLNEQLRAAYTSASFRHMSLLDISDLATDHLGCDLSIASKHISK 448  
Db 1 MAQGEAQWFOBAKNLNEQLRAAYTSASFRHMSLLDISDLATDHLGCDLSIASKHISK 60  
Qy 449 VQEPVLPEVFGNLSVMCVMVEGAGSGKTVLLKIAFLWASGCCPLNRFQVFLSLSS 508  
Db 61 VQEPVLPEVFGNLSVMCVMVEGAGSGKTVLLKIAFLWASGCCPLNRFQVFLSLSS 120  
Qy 509 TRPDEGLASIIICDQLLEKEGVSVMCMRNIIQOLKNQVFLFLDDYKEICSIQVIGKLIQ 568  
Db 121 TRPDEGLASIIICDQLLEKEGVSVMCMRNIIQOLKNQVFLFLDDYKEICSIQVIGKLIQ 180  
Qy 569 KNHLSRTCLLIAVTRNRDIRR 591  
Db 181 KNHLSRTCLLIAVTRNRDIRR 203
```

RESULT 10
US-09-841-739-5
; Sequence 5, Application US/09841739
; Patent No. US20020034784A1
; GENERAL INFORMATION:
; APPLICANT: Bertin, John
; TITLE OF INVENTION: NOVEL MOLECULES OF THE CARD-RELATED PROTEIN FAMILY AND USES THEREOF
; FILE REFERENCE: 07334-329001
; CURRENT APPLICATION NUMBER: US/09/841,739
; CURRENT FILING DATE: 2001-08-29
; PRIOR APPLICATION NUMBER: US 09/697,089
; PRIOR FILING DATE: 2000-10-26
; PRIOR APPLICATION NUMBER: US 60/161,822
; PRIOR FILING DATE: 1999-10-27
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 1204
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-841-739-5

Query Match 9.0%; Score 661; DB 9; Length 1204;
Best Local Similarity 23.5%; Pred. No. 4.4e-43;
Matches 268; Conservative 199; Mismatches 427; Indels 245; Gaps 43;
Qy 341 NCPFLQNMK--SSAEVTPD---LQSRGELCELLETTSSENULEDSIAVGPIVPEMAQGEAQW 396
Db 216 NYPLFQDLNCGSQFEETQNVVFNITSSLIGLFHOTSEGLDD----- 257
Qy 397 FQEAKNLNEQLRAAYTSASFRHMSLLDISDLATDHLGCDLSI---ASKHISKPV--- 449
Db 258 -----LAQDLKDYHTPSFLNF-----YPLGEDIDIIIFNLKSTTEPVLWRK 299
Qy 450 -----QEPLVLPVPEVFGNLSVMCVMVEGAGSGKTVLLKIAFLWASGCCPLNRFQVFL 503
Db 300 DQHHRVQQLTNGLLQALQSPCIIIEGESGKGKSTLLQRIAMLWGSCKKALTCKFKVFF 359
Qy 504 LSLSTRPDEGLASIIICDQLLEKEGVSVMCMRNIIQOLKNQVFLFLDDYKEICSIQ-- 561
Db 360 LRLS--RAQGLFETLDCDQLLDIPGTIRKQTFMAMLLKLQRVFLFLDDGYNEF--KPQNC 415
Qy 562 -VIGKLIQKNHLSRTCLLIAVTRNRDIRRILETILEIKAPFPYNTVCILRKLFSHNMT 620
Db 416 PEIEALIKENHRFKNMVIVTTTECLRHIRQFGALTAEVGDMTEDSAQALIREVLIKELA 475
Qy 621 RLRKFMVYFGKNQSLQIKTPTLVAAICAHWFQYPPDFSDDDVAVFKSYMERLSLRNK- 679
Db 476 --EGLLLQIKSRCLRNLMKTPLFVITCAIQMGSESEFHSHTQTTLFHTFYDLLIQKNKH 533
Qy 680 -----ATAEILKATVSSCGELALKGFFSCCFEFNDDDLAAGVDEDEDLTMCLMSKFTAQ 734
Db 534 KHKGVAASDFIR-SLDHCGDLALEGVFSHKFDDELQDV--SSVNEDVLLTTGLLCKYTAQ 590
Qy 735 RLRPFYRFLSPAFOEFLAGMRLIELLDSRQEHQDLGLVHLKQINSPPMTVSAYNFLNY 794
Db 591 RPKPKYKFFHKSFQEYTAGRRSLSLTSHPEEVTGNGYIQQMVSISDITSTYSSLLRY 650
Qy 795 V--SSLPSTKAGPKIVSHLLHLVDN-----KESLENISENDDYLLKHQPEI 837
Db 651 TCGSSVEATRA--VMKHLAAVYQHGCLLGLSIAKRPLWRQESLQSVKN----- 696
Qy 838 SLQMLRLGLWQICPQAYFSVMVSEHLLVLALKTAYQSN--VAACSPFVLQFLQGRTLTLG 896
Db 697 TTEQEILKAI---NINSFVECGIHL-----YQESTKSALSQEFQFQKSLYIN 744
Qy 897 ALNL-QYFEDHPESLRLRSIHFPPIRGNKTSIPRAHFSVLETCFDKQSVPTIDQDYASAFE 955
Db 745 SGNIPDYLFD-----FHEHLPNC--ASALDFIKLDFYGG-- 776
Qy 956 PMNEWERNLAEKEDNVKSYMVMQRRASPDLSGTGYWKLSPQYKIP----- 1000

Db 777 AMASWE-----KAAEDTGGIHEEAPETY-IPSRVSLFNNWKQEFR 817

QY 1001 CLEVDVNDIDVVGQDMLEILMTVFSASQRIELHNLHNSRGFISIRPALELSKASVTKCSI 1060

Db 818 TLEVTLRDFSGLNKQDIRYLKGFSSATSLRLQIKRCAGVAGSLVSLSTCK-NIYSLMV 876

QY 1061 SKLELSAAEQELLLTLPLESLEVSQTIQSDQIIPP--LDKFLCLKELSDVLEGNINVF 1118

Db 877 EASPLTIEDERHITSVTNLKTLSTH---DLQNRQLPGGLTDSLGNLKNLTKLIMDNIMK- 932

QY 1119 SVIPEEFPNFHMEKLLIQISAEDYDPSKLVKLIQNSPNLHVPHLKC�FFSDFGSLMTMLV 1178

Db 933 -----NEEDAIAKLAEGKLNKMKCLFHL--THLSDIGEGMDYIV 969

QY 1179 S-----CKKLTETKFSDSFF--QAVPFVA-SLPNFIISKILNLEGQQFPDEETSEKFAY 1229

Db 970 KSLSEPC-DLEEIQLVSCCLSANAVKILAQNLHNLVKSILDL-SENYLEKDGNEALHE 1027

QY 1230 ILGSLNLEE---LILPTGDGIYRVAKLIIQCCQQLHCLRVLSFCKTLNDDSVVEIAKVA 1286

Db 1028 LIDRMNVLEQLTALMLPWGCDVQGSLSLLKHLEEVQPLVKLGLKNWRLTDT-----EIR 1082

QY 1287 ISGGF-----QKLENLKLINSIHKITEEGYRNFFQALDNMPNLQELDISRHFTECIKAQA 1340

Db 1083 ILGAFFGKNPLKNFQQLNLAGN-RVSSDGLAFMGVFENLKQLVFFDFS---TKEFLPDP 1138

QY 1341 TTVKLSQCVLRPLRLNLMNLSWLLDADDIALINVMKERHPQSKYLTILQKWILPFSP 1399

Db 1139 ALVRKLSQVLSKLTFLQEARLVGVQFDDDDLSVITDEKAQ-----MICPWNKILLP 1189

RESULT 11

US-10-449-315-5

; Sequence 5, Application US/10449315

; Publication No. US20030190679A1

; GENERAL INFORMATION:

; APPLICANT: Bertin, John

; TITLE OF INVENTION: NOVEL MOLECULES OF THE CARD-RELATED PROTEIN FAMILY AND USES THERE

; FILE REFERENCE: 07334-329001

; CURRENT APPLICATION NUMBER: US/10/449,315

; CURRENT FILING DATE: 2003-05-30

; PRIOR APPLICATION NUMBER: US /09/841,739

; PRIOR FILING DATE: 2001-08-29

; PRIOR APPLICATION NUMBER: US 09/697,089

; PRIOR FILING DATE: 2000-10-26

; PRIOR APPLICATION NUMBER: US 60/161,822

; PRIOR FILING DATE: 1999-10-27

; NUMBER OF SEQ ID NOS: 16

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 5

; LENGTH: 1204

; TYPE: PRT

; ORGANISM: Homo sapiens

US-10-449-315-5

Query Match 9.0%; Score 661; DB 14; Length 1204;

Best Local Similarity 23.5%; Pred. No. 4.4e-43;

Matches 268; Conservative 199; Mismatches 427; Indels 245; Gaps 43;

QY 341 NCPFLQNMK-SSAEVTPD---LQSRGELCELLETTSSENLSDIAVGPIVPEMAQGEAQW 396

Db 216 NYPLFQDLNGQSFEETQNVVFFNITSSLIGLFHQTSFGDLDD----- 257

QY 397 FQEAKNLNEQLRAAYTSASFRHMSLLDISDLPATLHLLGCDLSI---ASKHISKPV----- 449

Db 258 -----LAQDLKOLYHTPSFLNF-----YPLGEDIDIIIFNLKSTFTPEVLMWRK 299

QY 450 -----QEPLVLPVEFGNLSVMCVGEAGSGKTLLKKIAFLWASGCCPLNRFQLVVFY 503

Db 300 DQHHRVQELTLNGLLQALQSPCIIIEGSGKSTLLQRIAMLWGSCKKALTKEKPVFF 359

QY 504 LSLSTRPDEGLASIIDQLLEKEGSVTMCMRNIIQQLKNQVLFLLDDYKEICSIPO--- 561

Db 360 LRLS--RAQGLFETLQDQLLDIPGTIRKQTFMAMLLKLQRVLFLLDGYNF--KPQNC 415

QY 562 -VIGKLIQKNHLSRTCLLIAVRTNRARDIRRYLEILEIKAFPFYNTVICLRKLFSSHMT 620

Db 416 PEIEALIKENHRFKNMVIVTTTTECLRHIRQFGALTAEVGDMTEDSAQALIREVLKELA 475

QY 621 RLRFKMFVFGKNQSLQKIQKTPLFVAAICAHWFQYPPDFSDDDVAVFKSYMRLSLRNK- 679

Db 476 --EGLLLQIKSRCLRNLMKTPLFVVITCAIQMGESEFHSHTQTTLFHTFYDILLIQKNKH 533

QY 680 -----ATAEILKATVSSCGELALKGFFSCCFENDDDLAAGVDEDEDLTCLMSKFTAQ 734

Db 534 KHKGVAASDFIR-SLDHCGDLALEGVFSHKDFDFELQDV--SSVNEDVLLTGLLCKYTAQ 590

QY 735 RLRFYRFLSPAPQEFELAGMRLIELLSDRQEHQDLGLYHLKQINSPPMTVSAYNNFLNY 794

Db 591 RFKPKYKFFHKSFQETAGRRLSLLTSHEPEEVTKNGYLOKQMVISIDITSTYSSLLRY 650

QY 795 V--SSLPSTKAGPKIVSHLLHLVDN-----KESLENISENDDYLKHOPEI 837

Db 651 TCGSSVEATRA---VMKHLAAVYQHGLLGLSLIAKRPLWRQESLSQVKN----- 696

QY 838 SLQMQLLRGLWQICPQAYFSVMVSEHLLVLAKTAYQSNT-VAACSPFVLQFQGRTLTLG 896

Db 697 TTEQEILKAI-----NINSFVECGIHL-----YQESTSKALSQEFQAFQGSLSYIN 744

QY 897 ALNL-QYFFDHPELSLLRSIHFPPIRGNTSPRAHFSVLETCFDKQSVPTTDQDYASAFE 955

Db 745 SGNIPDYLFD-----FHEHPNC--ASALDFIKLDFYGG-- 776

QY 956 PMNEWERNLAEKEDNVKSYMDQRRASPDLTSTGYWKLSPKQYKIP----- 1000

Db 777 AMASWE-----KAAEDTGGIHEEAPETY-IPSRVSLFNNWKQEFR 817

QY 1001 CLEVDVNDIDVVGQDMLEILMTVFSASQRIELHNLHNSRGFIESIRPALELSKASVTKCSI 1060

Db 818 TLEVTLRDFSGLNKQDIRYLKGFSSATSLRLQIKRCAGVAGSLVSLSTCK-NIYSLMV 876

QY 1061 SKLELSAAEQELLLTLPLESLEVSQTIQSDQIIPP--LDKFLCLKELSDVLEGNINVF 1118

Db 877 EASPLTIEDERHITSVTNLKTLSTH---DLQNRQLPGGLTDSLGNLKNLTKLIMDNIMK- 932

QY 1119 SVIPEEFPNFHMEKLLIQISAEDYDPSKLVKLIQNSPNLHVPHLKC�FFSDFGSLMTMLV 1178

Db 933 -----NEEDAIAKLAEGKLNKMKCLFHL--THLSDIGEGMDYIV 969

QY 1179 S-----CKKLTETKFSDSFF--QAVPFVA-SLPNFIISKILNLEGQQFPDEETSEKFAY 1229

Db 970 KSLSEPC-DLEEIQLVSCCLSANAVKILAQNLHNLVKSILDL-SENYLEKDGNEALHE 1027

QY 1230 ILGSLNLEE---LILPTGDGIYRVAKLIIQCCQQLHCLRVLSFCKTLNDDSVVEIAKVA 1286

Db 1028 LIDRMNVLEQLTALMLPWGCDVQGSLSLLKHLEEVQPLVKLGLKNWRLTDT-----EIR 1082

QY 1287 ISGGF-----QKLENLKLINSIHKITEEGYRNFFQALDNMPNLQELDISRHFTECIKAQA 1340

Db 1083 ILGAFFGKNPLKNFQQLNLAGN-RVSSDGLAFMGVFENLKQLVFFDFS---TKEFLPDP 1138

QY 1341 TTVKLSQCVLRPLRLNLMNLSWLLDADDIALINVMKERHPQSKYLTILQKWILPFSP 1399

Db 1139 ALVRKLSQVLSKLTFLQEARLVGVQFDDDDLSVITDEKAQ-----MICPWNKILLP 1189

RESULT 12

US-10-156-733-2

; Sequence 2, Application US/10156733

; Publication No. US20030099969A1

; GENERAL INFORMATION:

; APPLICANT: Alnemri, Emad S.

; TITLE OF INVENTION: IPAF, AN ICE-PROTEASE ACTIVATING

; TITLE OF INVENTION: FACTOR

; FILE REFERENCE: 480140.477

```

; CURRENT APPLICATION NUMBER: US/10/156,733
; CURRENT FILING DATE: 2002-05-24
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 1024
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-156-733-2

Query Match      8.9%; Score 654; DB 14; Length 1024;
Best Local Similarity 23.7%; Pred. No. 1.2e-42;
Matches 263; Conservative 197; Mismatches 410; Indels 238; Gaps 42;

QY 344 FLQNMKS-SAEVTPDLQSRGELCELLETTSESNLEDSIAVGPIVPEMAQGEAQWFQAKN 402
Db 69 FLKSLKEWNYPLFQDLNGQ---SLFHQTSEGDLDL-----100

QY 403 LNEQLRAAYTSASFHMSLLDISDLATDHLGCDLSI---ASKHISKPV-----449
Db 101 LAQDLKDLHYTPSFLNF-----YPLGEDIDIFNLKSTFTEPVLWRKQDQHHHR 148

QY 450 QEPLVLPVPEVFGNLSVMCEGEAGSGKTLLKKTAFWASGCCPLLNRFLQVFLYLSLST 509
Db 149 VEQTLNGLLQALQSPCIIEGESGKSTLLQRIAMWLGSGKCKALTCKFKVFVFLRLS-- 206

QY 510 RPEGLASIIICDQLEKEGSGVTMCNRNIIQQLKNQVLFLLDDYKEICSIPO----VIGKL 566
Db 207 RAQGGFLFETLCDQLLDIPGTIRKQTFMAMLLKLRQVLFLLDGYNEF--KPQNCPEIEAL 264

QY 567 IQKNHLSRTCLLIAVRTNRARDIRRYLEITILEIKAPFPYNTVCILRKLFSHNNTRLRKFM 626
Db 265 IKENHRFKNMVIVTTTECLRHIRQFGALTAEGVDMTEDSAQALIREVLKELA--EGLL 322

QY 627 VYFGKNQSLQKIQKTPFLVAAICAHWFQYPPDFSPDDVAVFKSVMERLSLRNK-----A 680
Db 323 LQIQKSRCLRNLMKTPFLVVITCAIQMGSESEFHSHTQTTLFHTFYDLLLIQKNHKHKGVA 382

QY 681 TABILKATVSSCEGELALKGFFSCFEFNDDDLABAGVDEDEDTMCLMSKFTAQRLRPFY 740
Db 383 ASDFIR-SLDHCGDLALEGVFVSHKFDLQDV--SSWNEDVLLTGLLCKYTAQRFPKY 439

QY 741 RFLSPAFQEFAGMRLIELLDSRQEHQDLGLYHLKQINSMPMTVSAYNNFLNYV--SSL 798
Db 440 KPFHKSFQEYTAGRLSSLLTSHEPEEVTGNGYLGKQVNSISDITSTYSSLLRYTCGSSV 499

QY 799 PSTKAGPKIVSHLLHLVDN-----KESLENISENDYLLKHQPEISLQMQ 843
Db 500 EATRA---VMKHLAAVYQHGGCLLGLSIARPLWRQESLQSVKN-----TTEQEI 545

QY 844 LRGLWQICPOAYFSVMSEHLLVLALKATAYQSN--VAACSPFVLQFQRTLTGALNL-Q 901
Db 546 LKAI-----NINSFVCEGIHL-----YQESTKSALSQEFQFQKSLYNSGNIPD 593

QY 902 YFPDHPESLRLRSIHFPPIRGNKTSAPRAHFSVLETCFDKSQVPTIDQDYASAFEPNWE 961
Db 594 YLPD-----FFEHLFNC--ASALDPFKLDYFG--AMASWE 625

QY 962 RNLAEKEDNVKSYMOMQRRASPDSTGYWKLSPKQYKIP-----CLEVDV 1006
Db 626 -----KAAEDTGGIHMEEAPEY-IPSAVSLFFNWKQEFRTLEVTL 666

QY 1007 NDIDVVQDMLEILMTVFSASQRIEHLNHSRGFTESIRPALELSKASVTCKSISKLELS 1066
Db 667 RDFSCLNKQDIRYLGKIFSSATSRLQIKRCAGVAGSLSLVLSCK-NIYSLMVEASPLT 725

QY 1067 AAEQELLLTLPSLESLEVSGTIQSDQIIFPN--LDKFLCLKELSDVLEGNINVSFVPIEE 1124
Db 726 IEDERHITSVTNLKTLSIH--DLQNRQLPGGLTDSLGNLKNLTKLIMDNKM-----775

QY 1125 FPNFHHMEKLLIIQISAEYDPSKLVKLIQNSPNLHVFLKCNFFSDFGSLMTMLVS-----1179
Db 776 -----NEEDAIAELGLKNLKMCLFHL--THLSDIGEGMDYIVKLSLSE 818

QY 1180 -CKKLTETKFSDFSFF--QAVPFVA-SLPNFISLKLNLNLEGOQFPDEETSEKPAYILGSL 1235
Db 819 PC-DLEEIQLVSCCLSANAVKILAQNLHNLVKLSILD-L-SENYLEKDGNEALHELIDRMN 876

QY 1236 NLEE---LILPTGDIYRVAKLIQCCQQLHCLRVLSFFKTLNDDSVVEIAKVAISGGF- 1291
Db 877 VLEQLTALMLPWGCDVQGSLSLLKHLEVPQLVKLGLKNWRLTDT-----EIRILGAPF 931

QY 1292 -----QKLENLKLINHKITEGYRNFQALDNMPNLQELDISRHFTECIKAQATTVKSL 1346
Db 932 GKNPLKNFQQLNLAGN-RVSSDGLAFMGVFENLKQLVFFDFS---TKEFLLPDPALVRKL 987

QY 1347 SQCVLRPLRLIRLNLMSWLLDADIALL 1374
Db 988 SQVLSKLTFLQEARLVGWQFDDDDLSVI 1015

RESULT 13
US-10-221-097-49
; Sequence 49, Application US/10221097
; Publication No. US20030144476A1
; GENERAL INFORMATION:
; APPLICANT: Agarwal, Pankaj
; APPLICANT: Murdock, Paul R.
; APPLICANT: Rizvi, Safia K.
; APPLICANT: Smith, Randall F.
; APPLICANT: Xiang, Zhaoying
; TITLE OF INVENTION: NOVEL COMPOUNDS
; FILE REFERENCE: GP50016
; CURRENT APPLICATION NUMBER: US/10/221,097
; CURRENT FILING DATE: 2002-09-06
; PRIOR APPLICATION NUMBER: PCT/US01/07143
; PRIOR FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: 60/187,107
; PRIOR FILING DATE: 2000-03-06
; PRIOR APPLICATION NUMBER: 60/236,874
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/188,916
; PRIOR FILING DATE: 2000-03-13
; PRIOR APPLICATION NUMBER: 60/237,846
; PRIOR FILING DATE: 2000-10-03
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 49
; LENGTH: 1070
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-221-097-49

Query Match      8.9%; Score 654; DB 14; Length 1070;
Best Local Similarity 23.3%; Pred. No. 1.3e-42;
Matches 282; Conservative 213; Mismatches 454; Indels 260; Gaps 48;

QY 277 YEELRLD-----SFKDWPRESAVGVAALAKAGLFTYTGIKOIVQCFSCGGCLEKWQEGDDP 331
Db 2 YKSLNIDECDLHAWLDLPAEKPLGVNVRV-----CWGFI-RPKGYMYP 43

QY 332 LD-----DHTRCFPNCPFLQNMKSSA--EVTPLD-----QSRGEL-----CELLETTSES 374
Db 44 LDYLNFIKDNSRA-----LIQRMGMTVIKQITDDLFWNVNLRREVNIIICCEKVEQDAAR 98

QY 375 NLEDSIAVGPIVPEMAQGEAQWFQEAQNLNEQLRAAYTSASFHMSLLDISDLATD---431
Db 99 GI-----IHMILKKGSESCNLFKSLKEWNYPLFQDLNGQSLFHTQSEGLDLDLAQDLKD 153

QY 432 -----HLGCDLSI---ASKHISKPV-----QEPLVLPVPEVFGNLSVMCV 468
Db 154 LYHTPSFLNFYPLGEDIDIIIFNLKSTFTEPVLWRKQDQHHRVLEQLTLNGLLQALQSPCII 213

QY 469 EGEAGSGKTLLKKTAFWASGCCPLLNRFLQVFLYLSLSTRPDEGLASIIICDQLEKEG 528
Db 214 EGESGKGKSTLLQRIAMWLGSGKCKALTCKFKVFVFLRLS--RAQGGFLFETLCDQLLDIPG 271
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